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Format No: CP/TF/01

TEST RESULTS OF STEEL

Date: 06-06-18

Lab ID	:	**CP-2018-06-04-07**
Customer	:	Assistant Executive Engineer, T- Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T- Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvement and Construction of Culverts in Bagalagunte in Ward No. 14.
Agency	:	Sri. Madhu. MR, No, 135, 13th Cross, 5th Main, AGB Layout, Chikkabanavara, Bengaluru-90.
Customer's Reference	:	EE/DD/WO/395/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-06-18
Sample ID No	:	2018-06-04-07 /05
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	05-06-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.385	545	673	21.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.626	570	687	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.889	589	698	20.0%	Satisfactory	Satisfactory

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Certificate No.: TC-6648

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 07-06-18

Lab ID	:	CP-2018-06-04-07
Customer	:	Assistant Executive Engineer, T- Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T- Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvement and Construction of Culverts in Bagalagunte in Ward No. 14.
Agency	:	Sri. Madhu. MR, No, 135, 13th Cross, 5th Main, AGB Layout, Chikkabanavara, Bengaluru-90.
Customer's Reference	:	EE/DD/WO/395/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-06-18
Sample ID No	:	2018-06-04-07 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	05-06-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.79	–
2	Finess by Air permeablity method (m^2/kg,Min)	295.9	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time (minutes)	145 minutes	Not less than 30 minutes
6	Final Setting time (minutes)	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method) (mm)	1.0mm	Not more than 10 mm

Note:

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Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 03-07-18

Lab ID	:	CP-2018-06-04-07
Customer	:	Assistant Executive Engineer, T- Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T- Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvement and Construction of Culverts in Bagalagunte in Ward No. 14.
Agency	:	Sri. Madhu. MR, No, 135, 13th Cross, 5th Main, AGB Layout, Chikkabanavara, Bengaluru-90.
Customer's Reference	:	EE/DD/WO/395/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-06-18
Sample ID No	:	2018-06-04-07 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	05-06-18
Environmental Conditions during test	:	Temperature: 26˚C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results (N/mm^2)	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	57.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Date: 08-06-18

Lab ID	:	**CP-2018-06-04-07**
Customer	:	Assistant Executive Engineer, T- Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T- Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvement and Construction of Culverts in Bagalagunte in Ward No. 14.
Agency	:	Sri. Madhu. MR, No, 135, 13th Cross, 5th Main, AGB Layout, Chikkabanavara, Bengaluru-90.
Customer's Reference	:	EE/DD/WO/395/17-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	04-06-18
Sample ID No	:	2018-06-04-07 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	05-06-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	178	178	1.2	98.8	90-100
3	20 mm	7145	7323	48.8	51.2	30-70
4	10 mm	5699	13022	86.8	13.2	10-35
5	4.75 mm	1705	14727	98.2	1.8	0-5
6	Pan	273	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-06-04-07 **Date: 08-06-18**

Sample ID No : 2018-06-04-07 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.9	
3	Specific Gravity	2.66	–
4	Bulk Density(Loose) (Kg/l)	1.41	–
5	Bulk Density(Compacted) (Kg/l)	1.47	–
6	Water Absorption(%)	0.24	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-06-04-07** **Date: 08-06-18**
Customer	:	Assistant Executive Engineer, T- Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T- Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvement and Construction of Culverts in Bagalagunte in Ward No. 14.
Agency	:	Sri. Madhu. MR, No, 135, 13th Cross, 5th Main, AGB Layout, Chikkabanavara, Bengaluru-90.
Customer Reference	:	EE/DD/WO/395/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-06-18
Sample ID No	:	2018-06-04-07 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	05-06-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	208	208	4.2	95.8	90-100
3	10 mm	2787	2995	59.9	40.1	25-55
4	4.75 mm	1804	4799	96.0	4.0	0-10
5	Pan	201	5000	100	0	_

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